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01	CTGCAGCGCATGACGTCCTCAGTGGCCCCCCGCCTCCCAGCGCAGCATCCGGCTGCGGACA	096
61	AAGAGGGTGACCCGCACAGCCATCGCCATCTGTCTGGTCTTCTTTGTGTGCTGGGCACCC 1	1020
21	TACTATGTGCTACAGCTGACCCAGTTGTCCATCAGCCGCCCGACCCTCACCTTTGTCTAC	1080
31	TTATACAATGCGGCCATCAGCTTGGGCTATGCCAACAGCTGCCTCAACCCCTTTGTGTAC	1140
41	CCGCAAACGCTTGGTCCTGTCGGTGAAGCCTGCAGCCCAG	1200
)1	GGGCAGCTTCGCGCTGTCAGCAACGCTCAGACGGCTGACGAGGAGGAGGACAGAAAGCAAA	1260
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41	G	G	R	R	W	R	L	P	Q	P	A	W	V	Ε	G	s	S	A	R	L	60
61	W	Ε	Q	A	Т	G	T	G	W	M	D	L	E	A	s	L	L	P	Т	G	80
81	P	N	A	S	N	T	S	D	G	P	D	N	L	T	s	A	G	s	P	P.	100
101	R	T	_	S	I	s	Y	I	N	I	_I	M	P	S	V	F	G	T	I	C	120
121	<u>L</u>	_	-	I	I	G	N	S	T	V	I	F	A	V	V	K	K			L	140
141	Н	W	С	N	N	V	P	D	I	F	I	I	N	L	s	V	V	D D	L L	L	160
161	<u>F</u>	L	L	G	M	P	F	M	I	_H	Q	L	М	G	N	G	V	W	Н	F	180
181	G	E II		M	С	Т	L	I	Т	A	М	D	<u>A</u>	N	Ş	0	F	Т	s	T	200
201	<u>Y</u> _			T	A	M	A	I	D	R	Y	L	A	T	V	Н	P	I	S	S	220
221	T	K	F	R	K	P	s	<u>v</u>	A		L	V	Ι	С	L	L	W	Α	L	s	240
241	F	I	S	I	T	P	V	W	L			R	L	I	P	F	Р	G	G	A	260
261	<u>V_</u>	G	_C	G	I	R	L	P V	N	P	D	Т	D	<u>L</u>	Y	W	F	T	L	Y	280
281	0	F	F	L	A	F	Α		P	F	V	V	I	T	A	A	Y	V	R	I	300
301	L	Q	R	M	Т	S	S	V	А	P	A	S	Q	R		I 'I	R	L	R	Т	320
321	K	R	<u>v</u>	T	R	T	A	I	A	I	С	L	V	F		_	С	W	A	P	340
341	<u>Y</u>	Y	V	L	0	L	T	0				S	R	P	Т	L	Т	<u>F</u>	V	Y	360
861	<u>L</u>	Y	N	A	A	I	S	L	-	VI Y		N	S	С	L	N	Р	F	V	Y	380
881	<u>I</u>	V_	Ļ	С	E	Т	F	R	K	R	L	V	L	s	V	K	P	A	A	Q	400
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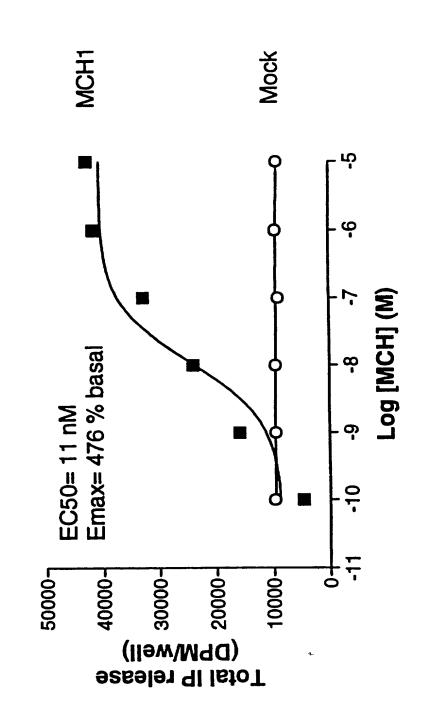
FIGURE 4

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1200	TGAGATTAAACCCAAGGCTACCCTGGGAGAATGCAGAGGCTGGAGGCTGGGGGGCTTGTAG	1141
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1080	GCTCCGCACGGTCAGCAACGCTCAGACAGCTGATGAGGAGGAGGACAGAAAGCAAAGGCAC	1021
1020	GCTCTGTGAGACCTTTCGAAAACGCTTGGTGTTGTCAGTGAAGCCTGCAGCCCAGGGGCA	961
096	CAACGCGGCCATCAGCTTGGGCTATGCTAACAGCTGCCTGAACCCCTTTGTGTACATAGT	901
006	TGTGCTGCAGCTGACCCAGCTGTCCATCAGCCGCCCGACCCTCACGTTTGTCTACTTGTA	841
840	GGTGACCCGCACGGCCATTGCCATCTGTCTGGTCTTCTTTGTGTGCTGGGCACCCTACTA	781
780	GCGCATGACGTCTTCGGTGGCCCCCAGCCTCCCAACGCAGCATCCGGCTTCGGACAAAGAG	721
720	TTTCCTGGCCTTTGCCCTTCCGTTTGTGGTCATTACCGCCGCATACGTGAAAATACTACA	661
099	CTGTGGCATCCGCCTGCCAAACCCGGACACTGACCTCTACTGGTTCACTCTGTACCAGTT	601
009	CAGTATCACCCCTGTGTGGCTCTACGCCAGGCTCATTCCCTTCCCAGGGGGTGCTGTGGG	541
540	GTTCCGGAAGCCCTCCATGGCCACCCTGGTGATCTGCCTCCTGTGGGCGCTCTCCTTCAT	481
480	CCTGACTGCCATGACCATTGACCGCTACTTGGCCACCGTCCACCCCATCTCCTCCACCAA	421
420	AACCATGTGCACCCTCATCACAGCCATGGACGCCAACAGTCAGT	361
360	GCTGGGCATGCCTTTCATGATCCACCAGCTCATGGGGAACGGCGTCTGGCACTTTGGGGA	301
300	GTGCAGCAACGTCCCCGACATCTTCATCATCAACCTCTCTGTGGTGGATCTGCTTTCCT	241
240	GGGCATCGTGGGAAACTCCACGGTCATCTTTGCTGTGGTGAAGAAGTCCAAGCTACACTG	181
180	AGGGAGTGTCTCCTACATCAACATCATTATGCCTTCCGTGTTTGGTACCATCTGTCTCT	121
120	TGCCAGCAACATCTCCGATGGCCAGGATAATCTCACATTGCCGGGGTCACCTCGTCGCAC	61
09	GCAGGCGACCTGCACCGGCTGCATCTGCAAACCTCGTTGCTGTCCACTGGCCCCAA	7

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FIGURE 6

IP release in MCH1- and mock-transfected Cos-7 cells



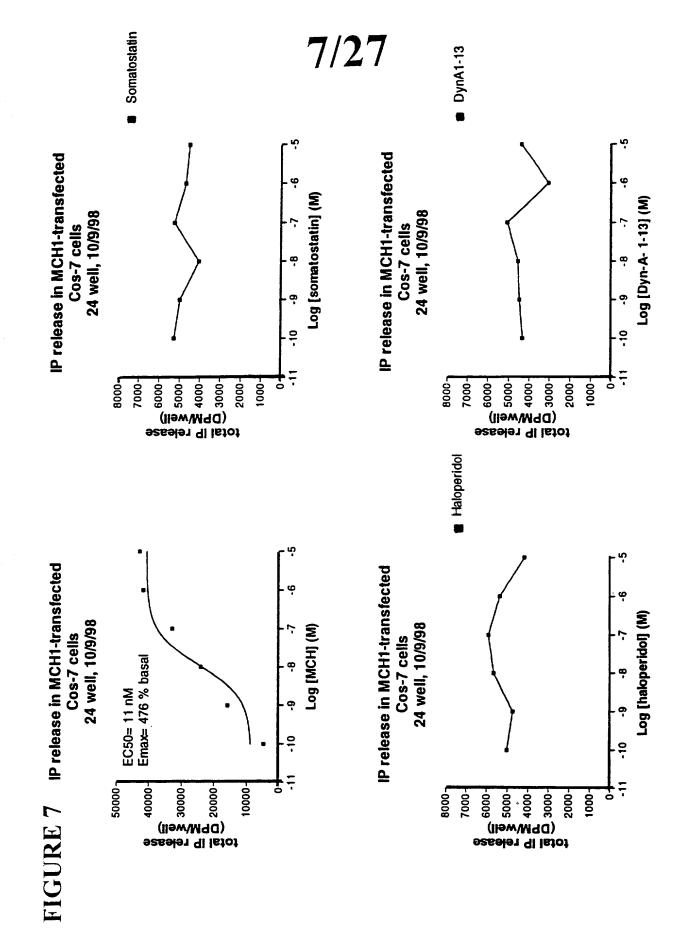
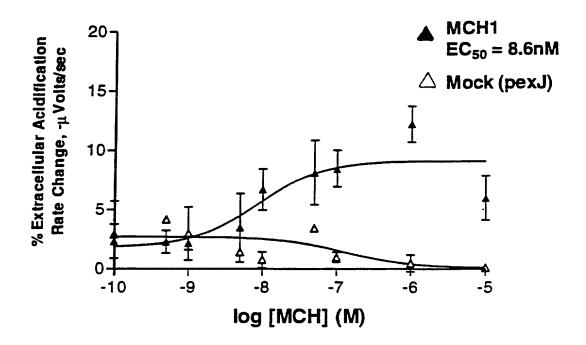


FIGURE 8 8/27 Microphysiometer Response CHO cells



Microphysiometer Response CHO cells

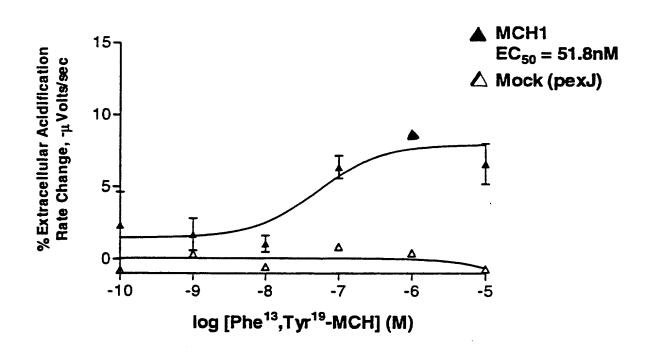


FIGURE 9

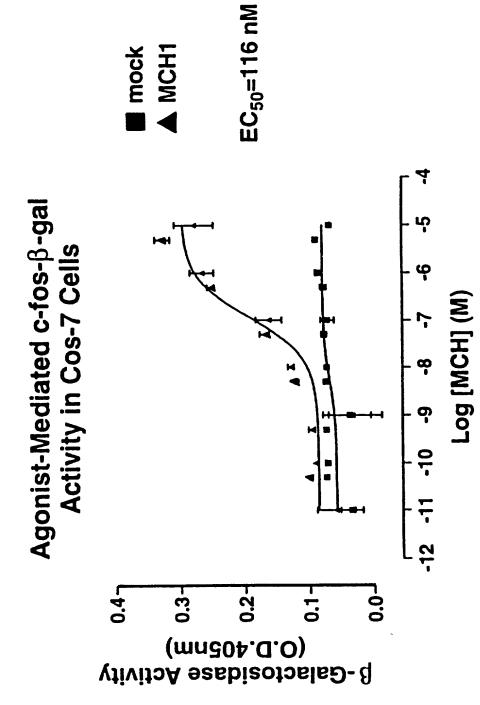
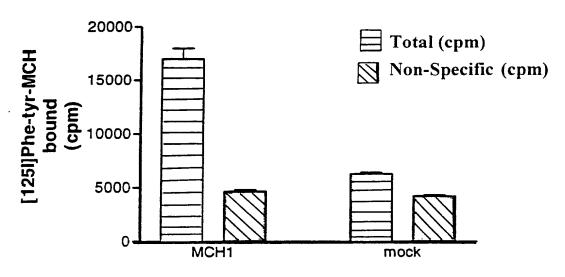
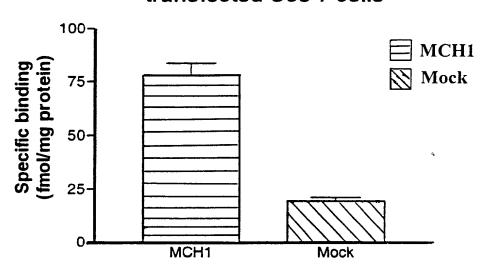


FIGURE 10

[125I]Phe13-Tyr19-MCH binding on transiently transfected Cos-7 cells



[125I]Phe13-Tyr19-MCH binding on transiently transfected Cos-7 cells



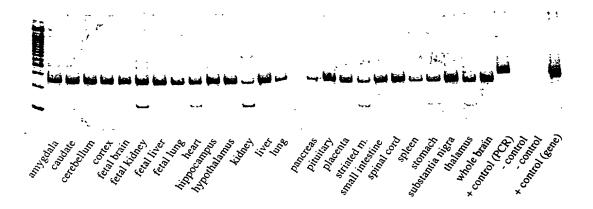


FIGURE 12

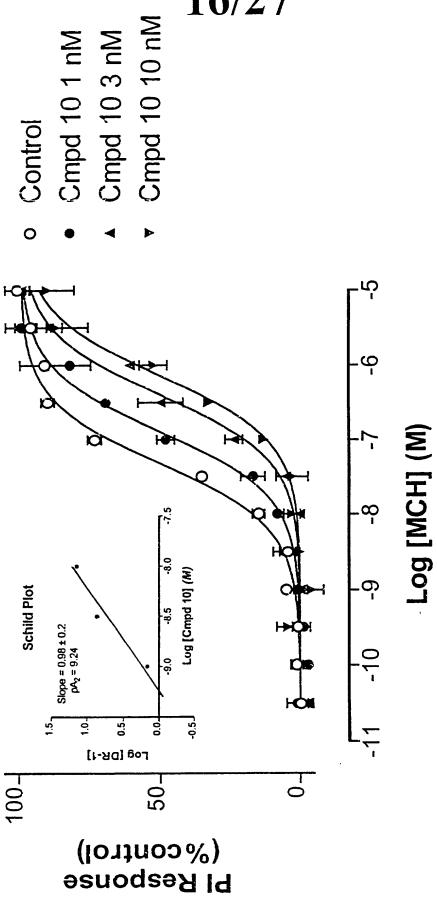
				40	
\sim	MSVGAMKKGV	GRAVGLGGGS	GCOATEEDPL	PDCGACABGO	
\mathbf{C}	MSVGAMKKGV	GRAVGLGGGS	GCOATEEDEL		
R114	MSVGAaKKGV	GRAVGLGGGS			
	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *			
	41			08	
TL231	GGRRWRLPQP	AWVEGSSARL	WEQATGTGWM	DIEASLLPTG	
R106	GGRRWRLPQ?	AWVEGSSARL		DLEASILPIG	
R114	GGRRWRLPQ?	AWVEGSSARL		DIEASILPIG	
80120	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	? ? ? ? ? ?		DIEASILPIG	
	81	100			
TL231	PNASNTSDGP	DNLTSAGSPP.	•		
10	PNASNTSDGP	DNLTSAGSPP.	:		
R114	PNASNTSDGP	ONLTSAGSPP.	•		
B0120	PNASNTSDGP	DNLTSEGSPP.	•		

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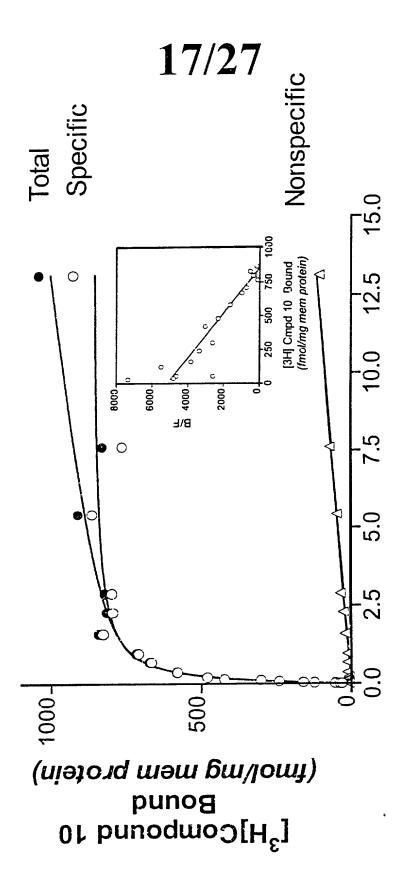
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FIGURE 16







[³H]Compound 10 Free *(nM)*

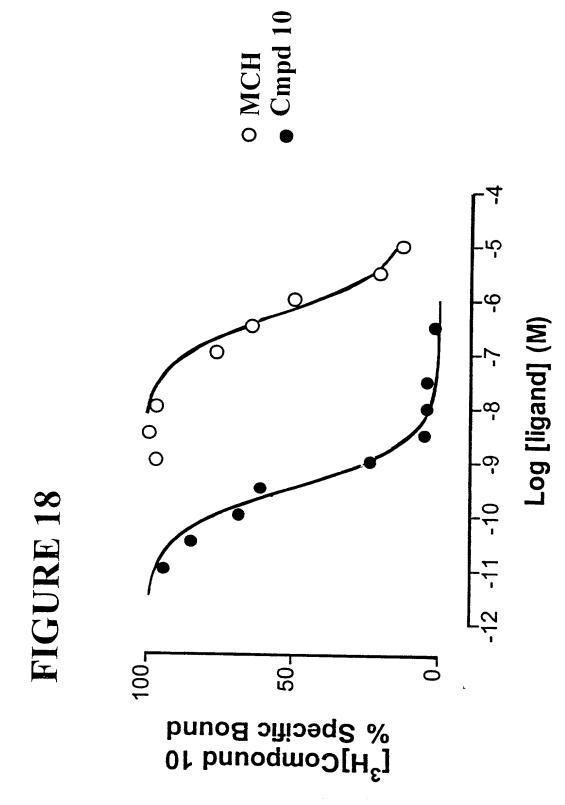


FIGURE 19

Total MCH1 Receptor Binding



Nonspecific binding

В

FIGURE 20A

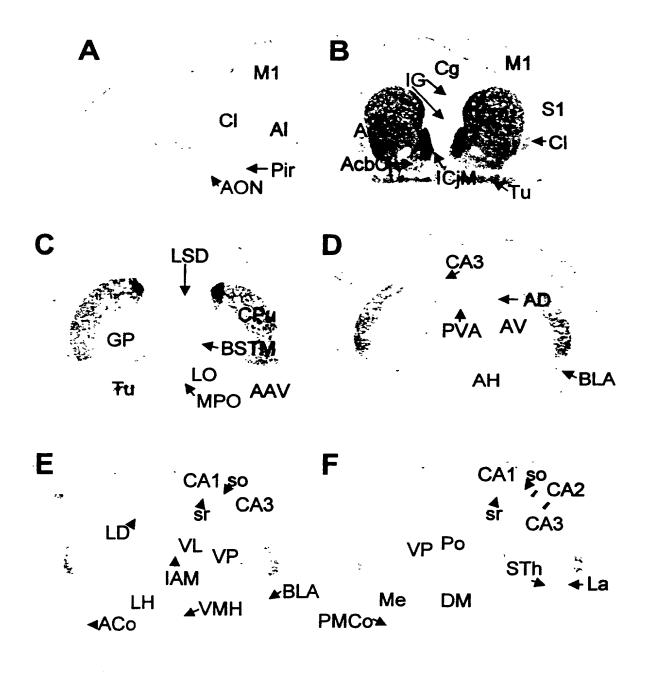
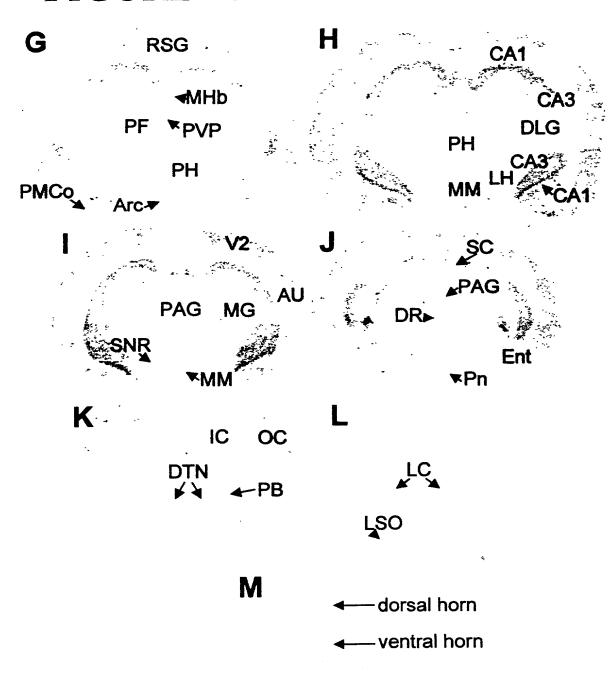
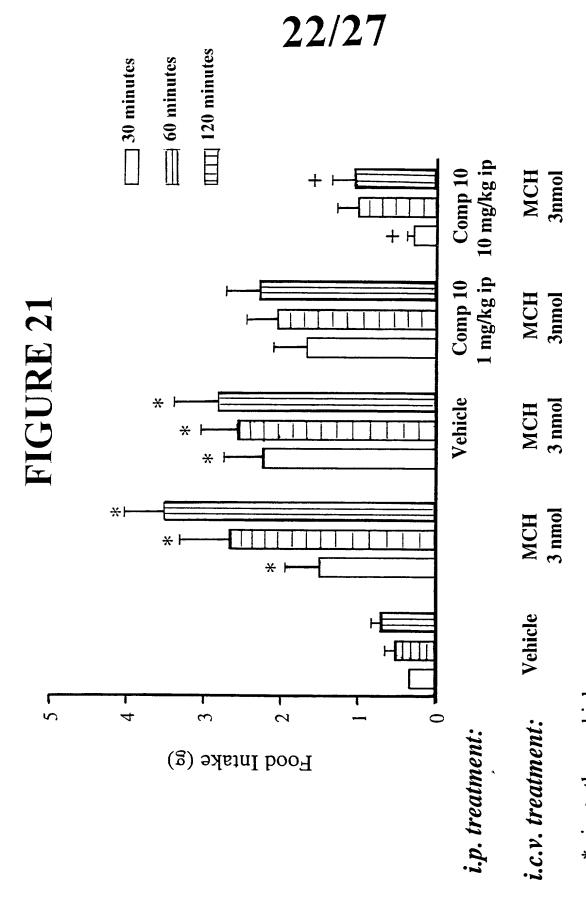


FIGURE 20B





* sig. > than vehicle + sig. < than veh+MCH

